MP15 Rec'd POTATO 06 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Shouichi KOGA et al.

Mail Stop: PCT

Serial No. NEW

Attorney Docket No. 2005 1723A

Filed January 6, 2006

SPACE DIVISION MULTIPLEX WIRELESS: COMMUNICATION SYSTEM, DEVICE AND METHOD FOR THE SAME:

[Corresponding to PCT/JP2004/017130

Filed November 11, 2004]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

Sir:

1a.

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

[]	each U.S. Patent and U.S. Patent application publication;
0	each reference previously cited in the international application PCT/; and/or
[]	each reference previously cited in prior parent application Serial No.
[X] T	This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
 - a. [] that each item of information contained in this Information Disclosure

 Statement was first cited in any communication from a foreign patent office in a

 counterpart foreign application not more than three months prior to the filing of
 the Statement, or
 - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
 - a. [] a full or partial English language translation submitted herewith,
 - b. [X] an International Search Report (in the English language) submitted herewith,
 - c. [X] the concise explanation contained in the specification of the present application at pages 1 and 3,
 - d. [X] the concise explanation set forth in the attached English language abstract,
 - e. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- 5. [X] an International Search Report citing one or more of the references is enclosed.

Respectfully submitted,

Shouichi KOGA et al.

lettrev R. F

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JRF/fs

Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 January 6, 2006

IAP15 Rec'd PCT/PTO 06 JAN 2006 INFORMATION DISCLOSURE STATEMENT Sheet 1 of 1 FORM PTO 1449 (modified) SERIAL NO. ATTY DOCKET NO. 10/563634 **NEW** 2005_1723A U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE APPLICANT Shouichi KOGA et al. LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) GROUP **FILING DATE** Date Submitted to PTO: January 6, 2006 January 6, 2006 U.S. PATENT DOCUMENTS CLASS **SUBCLASS** *EXAMINER DOCUMENT DATE NAME FILING DATE IF INITIAL NUMBER **APPROPRIATE** AA AΒ AC AD ΑE AF AG AΗ ΑI FOREIGN PATENT DOCUMENTS DOCUMENT DATE COUNTRY CLASS SUBCLASS **TRANSLATION** NUMBER YES NO /AF/ AJ 2001-237751 8-31-01 abstract Japan /AF/ AK 10-178367 6-30-98 Japan abstract /AF/ 03/101009 12-4-03 WO abstract AL. AM AN OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.) Z. G. Pan et al., "MIMO Antenna System for Multi-User Multi-Stream Orthogonal Space Division Multiplexing". AO ICC 2003, 2003 IEEE International Conference on Communications, Anchorage, AK, May 11-15, 2003, IEEE /AF/ International Conference on Communications, New York, NY: IEEE, US, 'Online! Vol. 1 of 5, May 11, 2003, pages 3220-3224, ISBN: 0-7803-7802-4, Retrieved from the Internet: URL:http://ieeexplore.ieee.org> 'retrieved on 3-10-2005!

AP H. Tröger et al., "A channel oriented Joint Transmission scheme for MIMO multi-user downlinks", COST 273, /AF/ 'Online! May 28, 2002, Finland, Retrieved from the Internet: URL:http://ieeexplore.ieee.org>, 'retrieved on 3-10-2005 /Aristocratis Fotakis/ 10/08/2008 **EXAMINER** DATE CONSIDERED